P5GD2 Premium

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P5 Ai Proactive Series

- Intel LGA775 Pentium 4 CPU
- Intel 915P chipset
- Dual-Channel DDR2 533
- PCI Express Architecture
- Wireless LAN onboard
- Dual Gigabit LAN
- 1394b/a

Enlargement Print

CPU	Chipset	PCI-E x 1	PCI-E x 16	LAN	WLAN	1394a/b	DDR2
LGA775	915P	2	1	Gb x 2	1	3	533 (Dual channel)

64bit CPU support

64-bit computing, the next generation technology to replace current 32-bit architecture, delivers advanced system performance, faster memory access and increased productivity. This motherboard provides excellent compatibility and flexibility by supporting either 64-bit or 32-bit architecture.

DDR2 600 Native Support

Although Intel's 925X, 915P and 915G chipsets claimed to only support DDR2 400/533, ASUS engineers successfully unleashed their true potential. This model offers native DDR2 600, eliminating the bottleneck when overclocking both the CPU and memory. With current processors supporting 800MHz FSB, ASUS motherboards, the only solutions with native DDR2 600, will provide superior performance for the most demanding applications.

FSB/MEM (freq.)	ASUS	Other brands
800/600 (Native)	V	

Hyper Path2 - Shorten Memory Latency

The innovative ASUS Hyper Path2 significantly shortens the latency time between the CPU and memory and improves memory performance without sacrificing stability.

Choice for Home Networking and Hard-Core Gamers

ASUS AI Proactive series -- The P5GD2 Premium is a total solution for the Intel 915P chipset. Create a wireless home network, build servers and workstations with triple RAID data security, and enjoy dual-Gbit Ethernet high data throughput with this all-new motherboard. It also supports LGA 775 CPU, dual-channel DDR 2, PCI Express x16 graphics, Serial ATA and IEEE 1394b.

Intel EM64T

Intel EM64T (Intel Extended Memory 64 Technology) allows processors to run newly written 64-bit code and to access larger amounts of memory, which delivers exceptional graphic performance and higher data processing speed. Digital media applications can take advantage of Intel EM64T in high quality video and audio processing as well as 3D rendering.

Intel EIST

Intel EIST (Enhanced Intel SpeedStep technology) automatically adjusts Intel 64-bit processor voltage and core frequency according to system performance demand, establishing a self-managed, lower-power consumption, less heat and quieter environment. Combined Intel EIST and ASUS Q-fan technology (adjusts fan speeds according to system loading), this motherboard provides excellently quiet, cool and efficient platform for Intel lovers.

Intel LGA775 Pentium 4 CPU

This motherboard supports the latest Pentium 4 CPU from Intel in LGA775 package. With 800MHz FSB, 1 MB L2 cache, Hyper-Threading Technology and core-speeds up to 3.6GHz and beyond, Intel's LGA775 Pentium 4 is one of the fastest desktop processors to date.
"Attention!! CPU Installation"

Intel 915P chipset

The Intel 915P chipset supports the latest PC technologies such as LGA775 Pentium 4 CPU, dual-channel DDR2 memory architecture, and PCI Express x16 graphics card interface. The ICH6R Southbridge further provides integrated 4-port SATA RAID controller, PCI Express x1 interfaces and 8 high-speed USB 2.0 ports.

Dual-Channel DDR2 533

DDR2 is the next generation memory technology to replace the current DDR. With initial speeds from 400 and 533MHz, DDR2 memory provides bandwidth up to 4.3GB/s. Doubled by the dual-channel architecture, the widest memory bus bandwidth 8.6GB/s is achieved on this motherboard.

PCI Express Architecture

PCI Express is the latest I/O interconnect technology that will replace the existing PCI. With a bus bandwidth 4 times higher than that of AGP 8X interface, PCI Express x16 bus performs much better than AGP 8X in applications such as 3D gaming. PCI Express x1 also outperforms PCI interface with its exceptional high bandwidth up to 500MB/s. The high speed PCI Express interface creates new usages on desktop PCs e.g., Gigabit LAN, 1394b, and high-speed RAID systems.

AI Proactive

Stack Cool™

Cooler Overclocking and Quieter Operation!
Heat causes instability and shortens system lifecycle, and motherboard power circuitry is a major thermal source. The patented Stack Cool?technology utilizes a mini PCB stacked against the main PCB to conduct heat away from power components, resulting in a 10ºCelsius reduction. And voila! Cooler overclocking, quieter fan operation, greater stability and longer system life without you doing a thing.

WiFi-g onboard (optional)

Wireless setup made affordable and easy!
WEP? SSID? Building a home WLAN used to be a hassle with confusing acronyms and cryptic menus. With WiFi-g™and its one-touch setup wizard, high-speed wireless network is just a few clicks away. WiFi-g?serves as the access point of your network or if you already have an access point, it is also a wireless adapter for PCs to access existing WLAN.

(WiFi-g™compliant to IEEE 802.11g 54 Mbps data transfer)

AI NOS

Boost performance when you need it the most!

Applications such as 3D games and video editing demand a huge chunk of system resource.

Inject "nitrous oxide" into your CPU! The patented AI NOS?(Non-delay Overclocking System) technology intelligently detects system load and automatically boosts performance for the most demanding tasks. Unlike other dynamic overclocking techniques, AI NOS?reacts much faster to satisfy your unending need for speeds.

AI NET2

Diagnose LAN connection before entering OS!

Network problems are often caused by bad cable connection.

AI NET2 remotely detects cable connection the second you turn on the system, and any faulty connections are reported back up to 100 meters at 1 meter accuracy.

High Definition Audio

Enjoy high-end sound system on your PC! The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology that simultaneously sends different audio streams to different destinations. You can now talk to your partners on the headphone while playing a multi-channel network games. All of these are done on one computer. The Dolby Digital Live technology from Dolby Lab encodes the multi-channel audio source into AC-3 bit-stream and outputs it to S/PDIF port in real time.

Dual Gigabit LAN

The integrated dual Gigabit LAN design allows a PC to serve as a network gateway for managing traffic between two separate networks. This capability ensures rapid transfer of data from WAN to LAN without any added arbitration or latency. No more bottleneck to handle large amounts of data such as video, audio, and voice.

IEEE 1394b/a

1394b (FireWire 800) ?with its higher bandwidth up to 800 Mbps, longer distances and much higher-powered bus ?is more suitable for bandwidth-intensive applications like digital video (DV), professional audio, hard drives, which often consume hundreds or even thousands of megabytes of data per file. With backwards compatibility with 1394a, this motherboard provides 1 x 1394a and 2 x 1394b ports.

Serial ATA & IDE RAID

The onboard Silicon Image Sil3114R and ITE 8212F RAID controllers plus the Intel ICH6R southbridge provide the best solution to your RAID requirements on different storage standards. The Intel ICH6R supports RAID 0, 1 and Intel Matrix RAID Technology on 4 Serial ATA ports. The Silicon Image Sil3114R controller offers four additional SATA interfaces and allows RAID 0, 1, 10, JBOD, and a RAID software patch to support RAID 5. For IDE hard disk drives, the ITE 8212F controller provides RAID 0, 1 , 0+1 functionality for two ATA133 channels.

ASUS Q-Fan2

ASUS Q-Fan2 technology intelligently adjusts both CPU fan and chassis fan speeds according to system loading to ensure quiet, cool and efficient operation.

S/PDIF-out on Back I/O Port

This motherboard provides convenient connectivity to external home theater audio systems via an optical or coaxial S/PDIF-out (SONY-PHILIPS Digital Interface) jack. It allows to transfer digital audio without converting to analog format and keeps the best signal quality.

Max. 8 USB 2.0 ports supports

USB 2.0 is the latest connectivity standard for next generation components and peripherals. Backwards compatible with current USB 1.1 peripherals, USB 2.0 delivers transfer speeds up to 40 times faster at 480Mb/s, for easy connectivity and ultra-fast data transfers.

Multi-language BIOS

The multi-language BIOS allows you to select the language of your choice from the available options. The localized BIOS setup menu helps you configure your system easier and faster.

ASUS CrashFree BIOS2

The CrashFree BIOS2 feature now includes the BIOS auto-recovery function in a support CD. Users can reboot their system through the support CD when a bootable disk is not available, and go through the simple BIOS auto-recovery process.

ASUS motherboards now enable users to enjoy this protection feature without the need to pay for an optional ROM.

C.P.R.(CPU Parameter Recall)

When the system hangs due to overclocking failure, there is no need to open the case to clear CMOS data. Just simply restart the system, the BIOS would show the previous setting and then users can amend the CPU setting again.

WinDVD Suite (On Retail Version Only)

ASUS motherboards, intensifying leadership in the IT industry, now bundle the versatile InterVideo WinDVD Suite. This multifaceted software set includes the latest multimedia software(OEM version), bringing forth the multimedia features of ASUS motherboards to the best!

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